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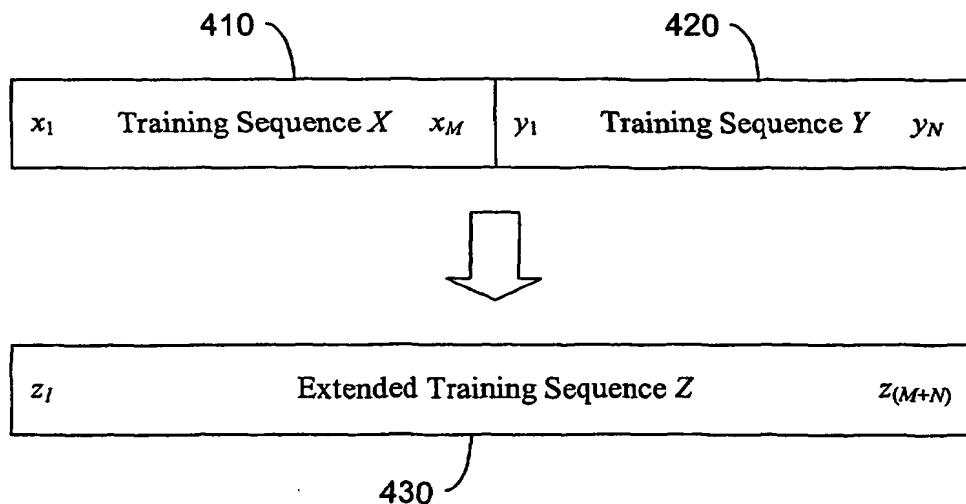**(10) International Publication Number**
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(54) Title: ARRANGEMENT AND METHOD FOR SEQUENCE PRODUCTION IN A SPREAD SPECTRUM COMMUNICATION SYSTEM

(57) Abstract: An efficient scheme for CDMA coding constructs codes by generating longer code sequences (430) via concatenation, from an existing set of short sequences (410, 420). The sequences may be spreading, scrambling and or training or channel estimation (such as midamble) sequences. The invention allows extension of sequences without performing an exhaustive search for sequences with optimal desired properties, as well as extension of the sequence duration to improve the detection of wanted signals via the use of a conventional matched filter, a multi-user detector or an adaptive filter/equaliser.